

FIG. 1

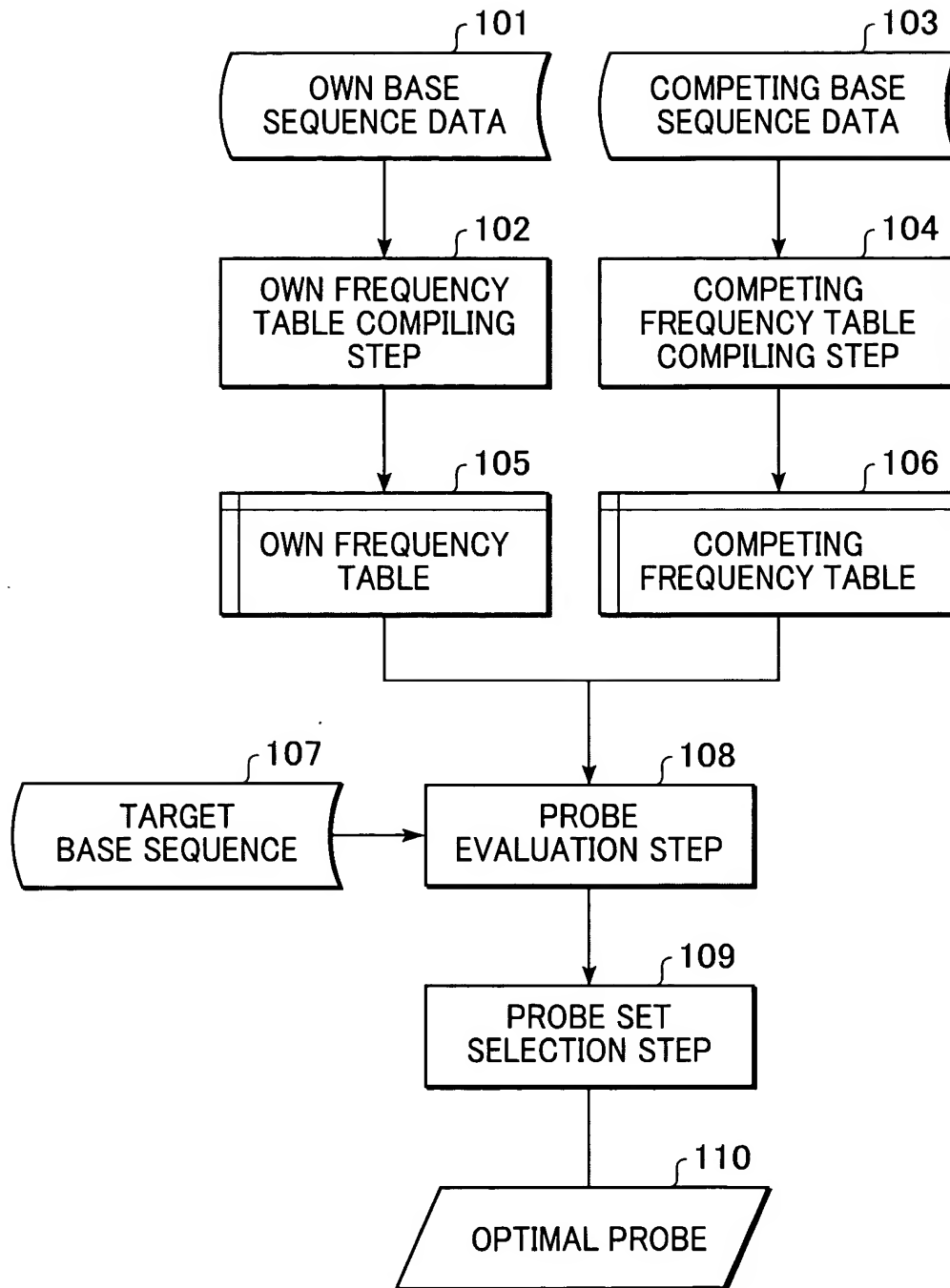


FIG. 2

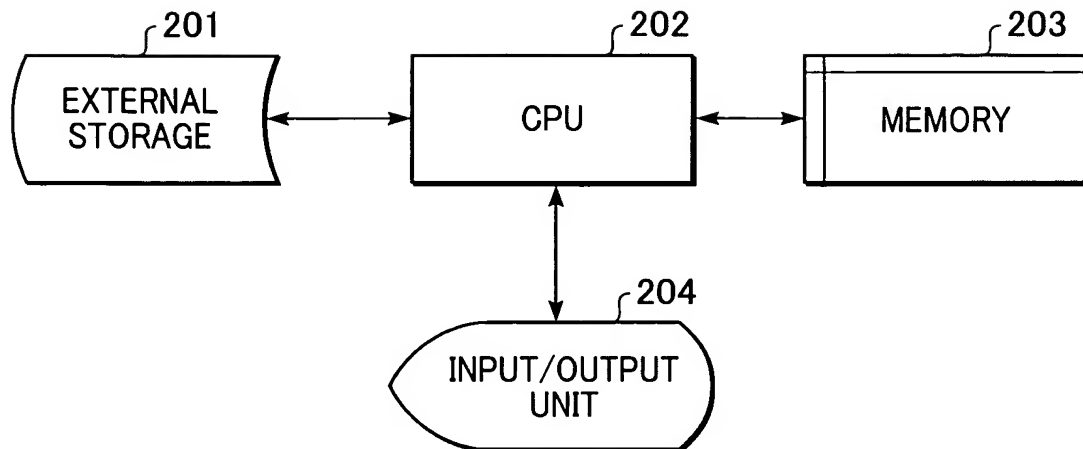


FIG. 3

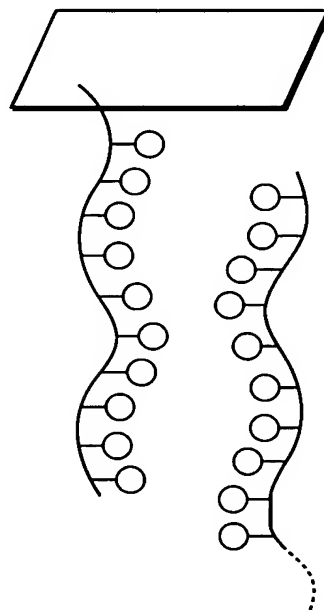


FIG. 4

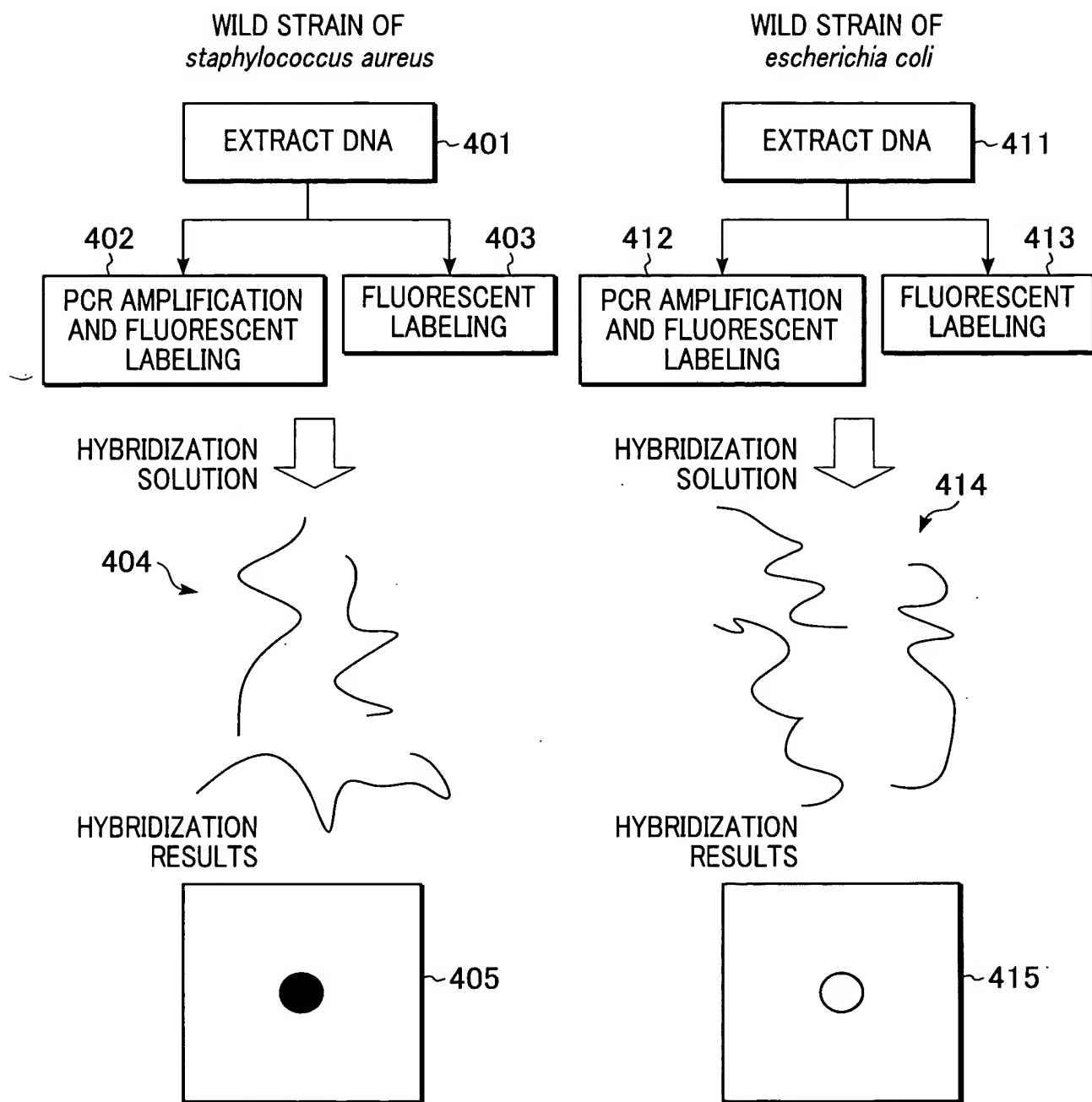


FIG. 5

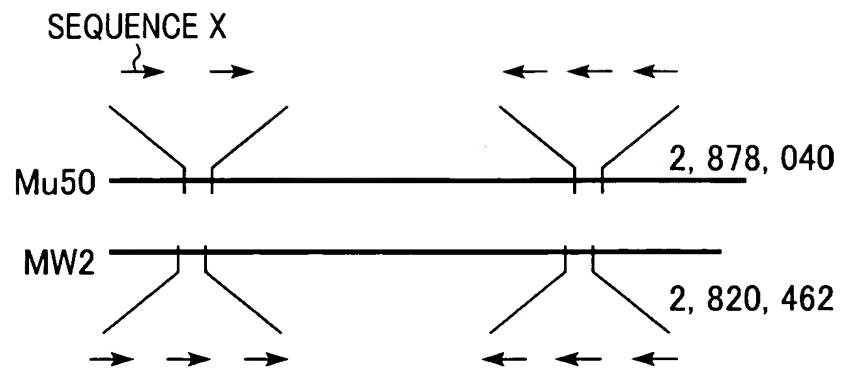


FIG. 6

BASE SEQUENCE	FREQUENCY (UNIQUENESS)
AAAAAAAAAA	1000
AAAAAAAAAT	10
...	...
...	...
GTAGATCCA	3
GTAGATCCT	5
...	...
...	...
CCCCCCCCC	0

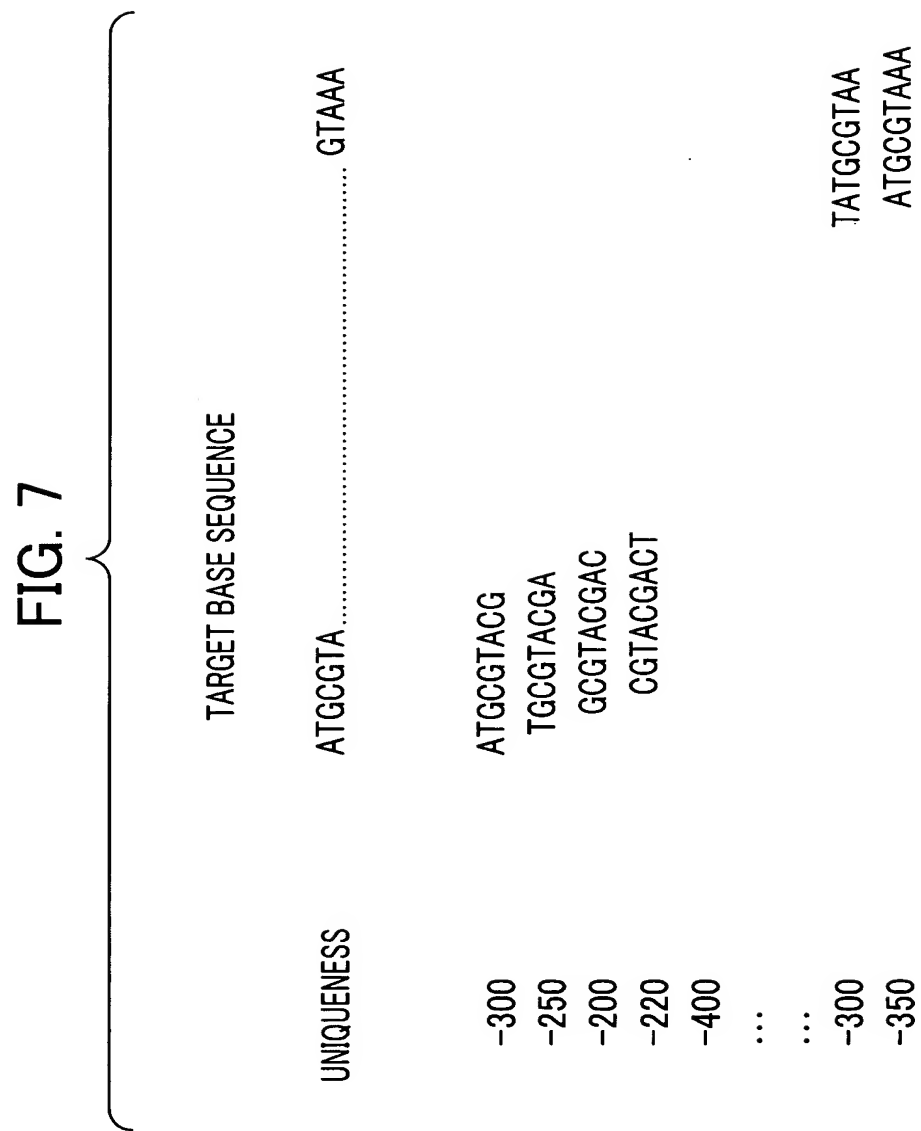
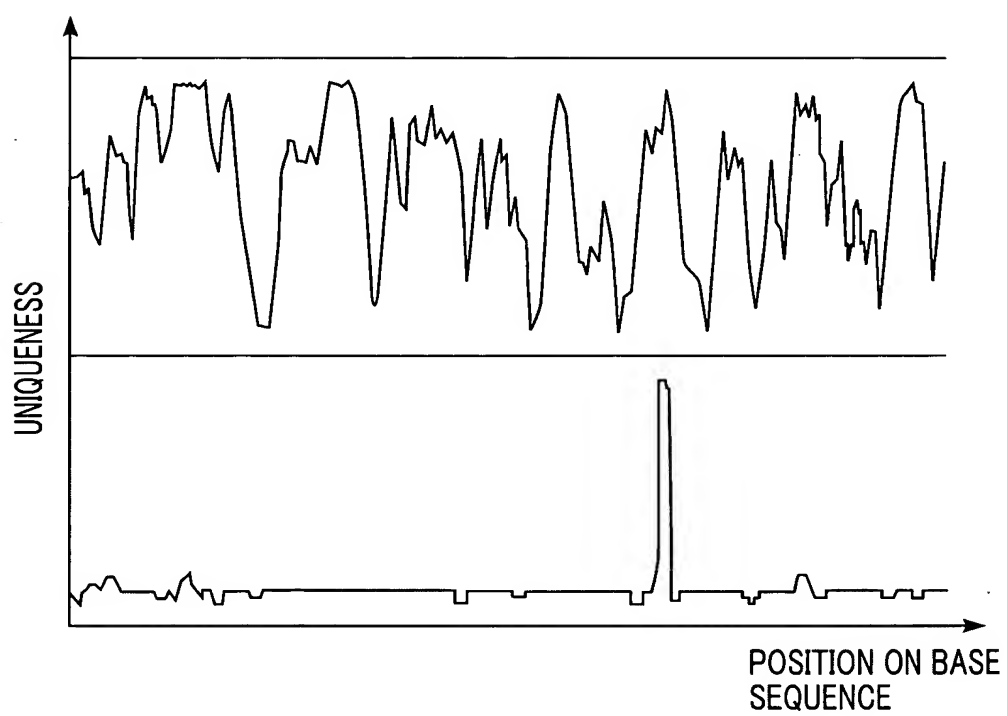


FIG. 8



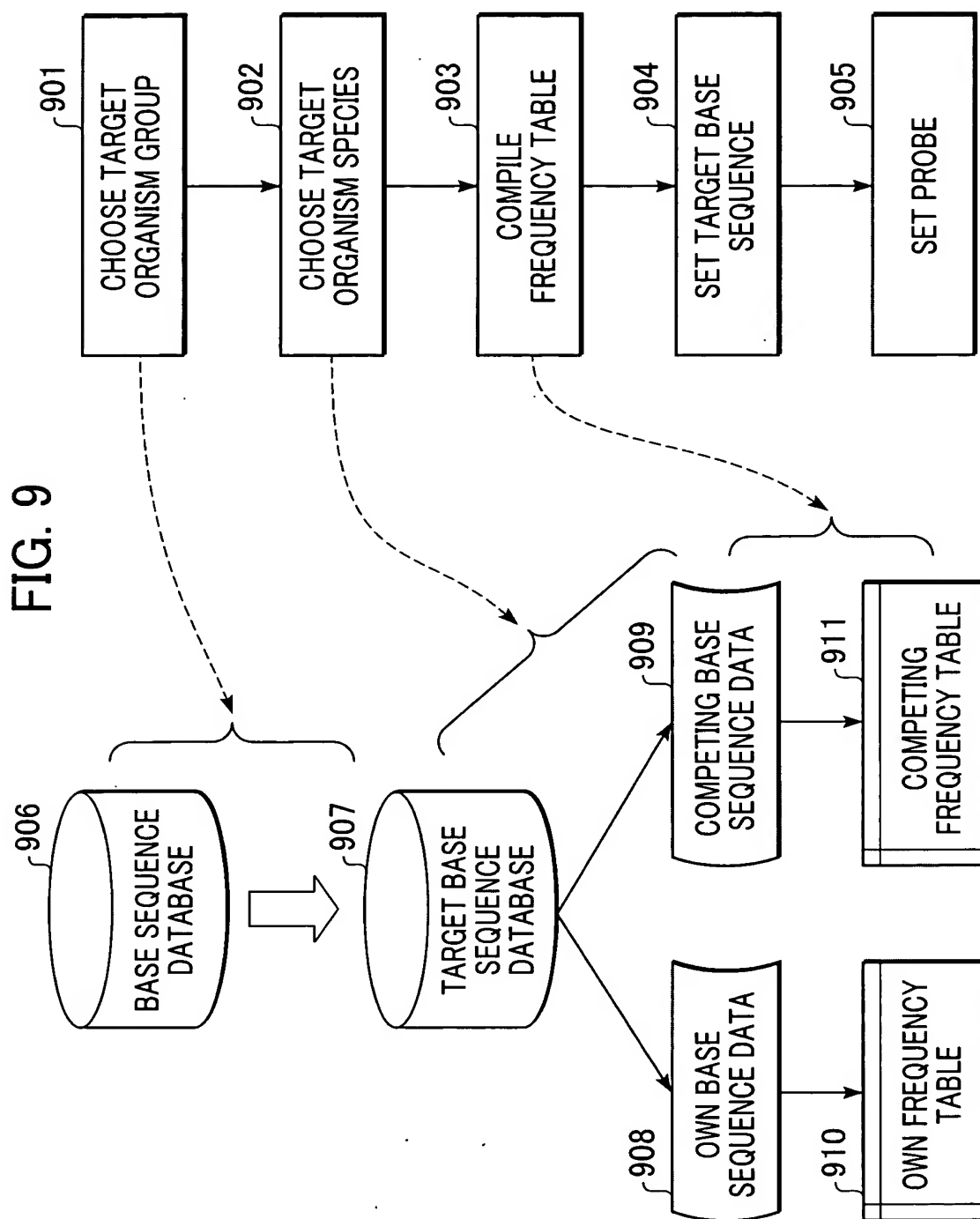


FIG. 10

The figure shows a software interface with a window containing two main sections: 'TARGET SPECIES' and 'STRAIN POSITION DIRECTION'.

**TARGET SPECIES** (labeled 1001): A list box containing the following species names:

- Staphylococcus aureus
- Staphylococcus epidermidis
- Escherichia coli
- Klebsiella pneumoniae
- Pseudomonas aeruginosa
- Serratia marcescens
- Streptococcus pneumoniae
- Haemophilus influenzae

**STRAIN POSITION DIRECTION** (labeled 1002): A list box containing the following strain identifiers:

- Mu50 1 (+)
- Mu50 2 (+)
- Mu50 3 (-)
- Mu50 4 (-)
- Mu50 5 (-)
- MW2 1 (+)
- MW2 2 (+)

A button labeled **Design** (labeled 1003) is located to the right of the 'TARGET SPECIES' list box.



FIG. 11

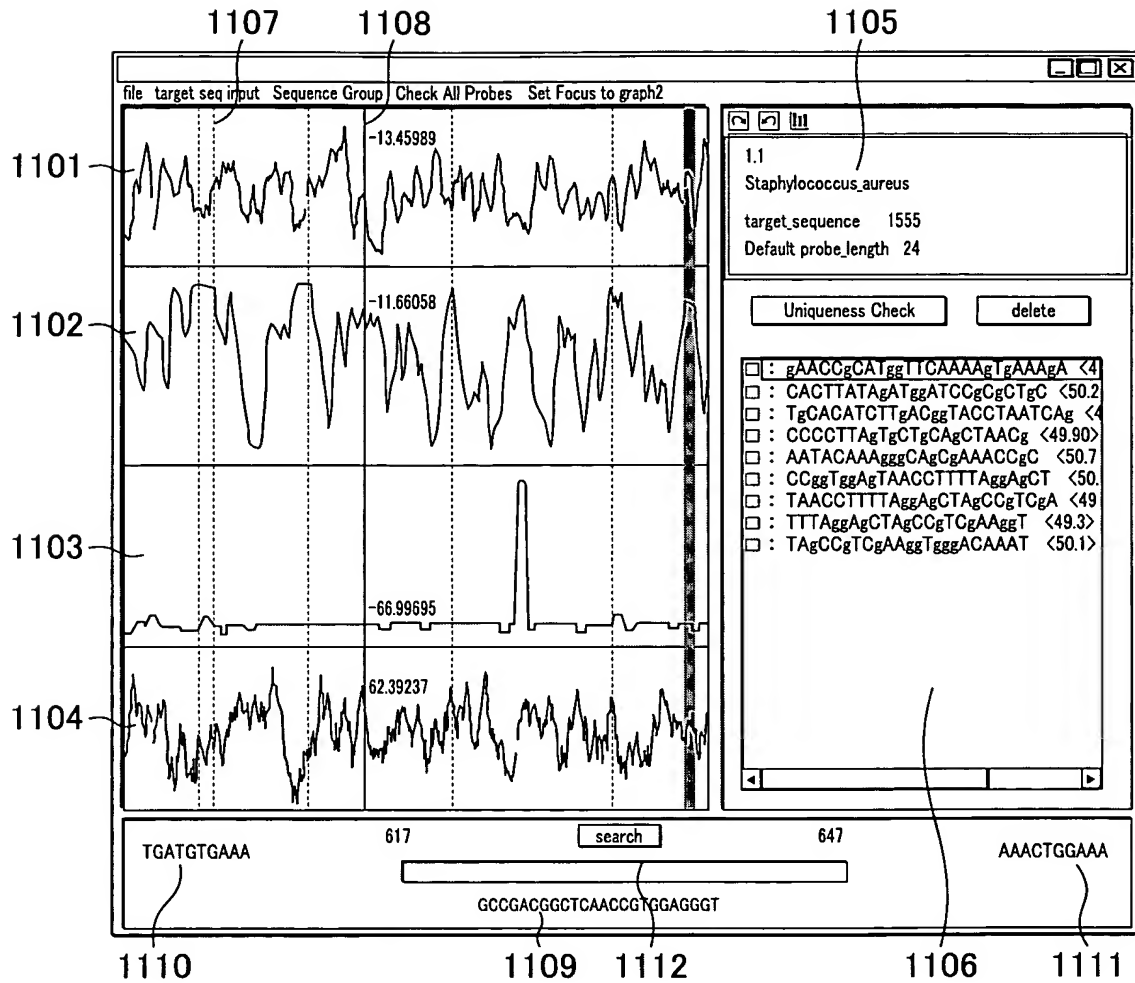


FIG. 12

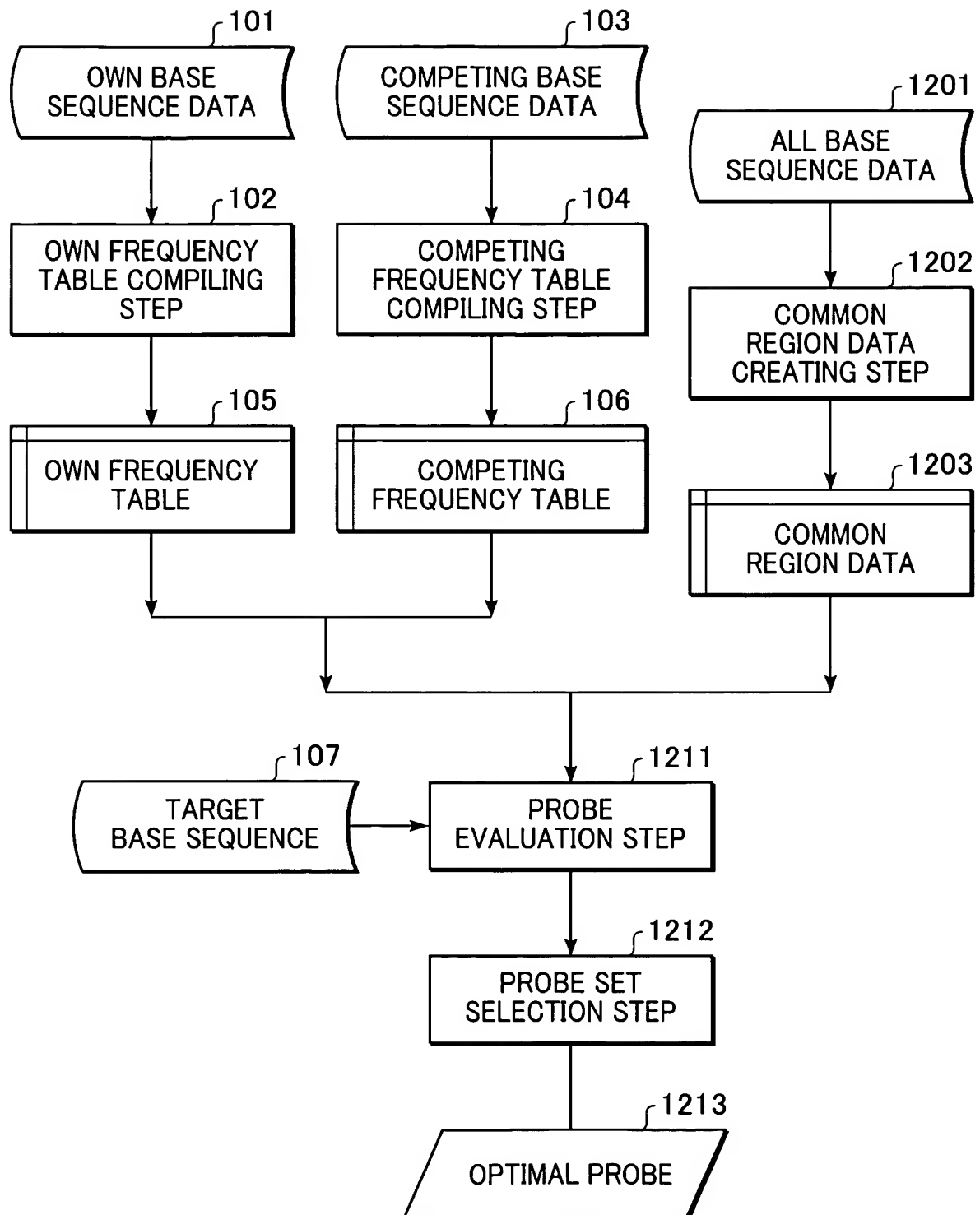


FIG. 13

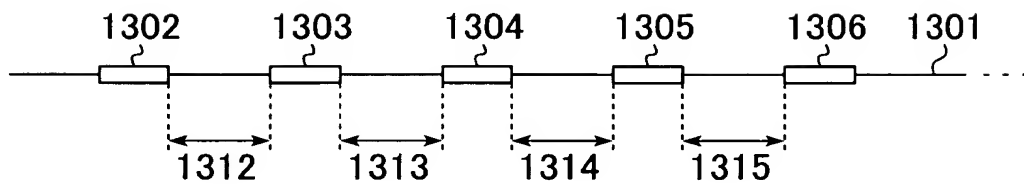
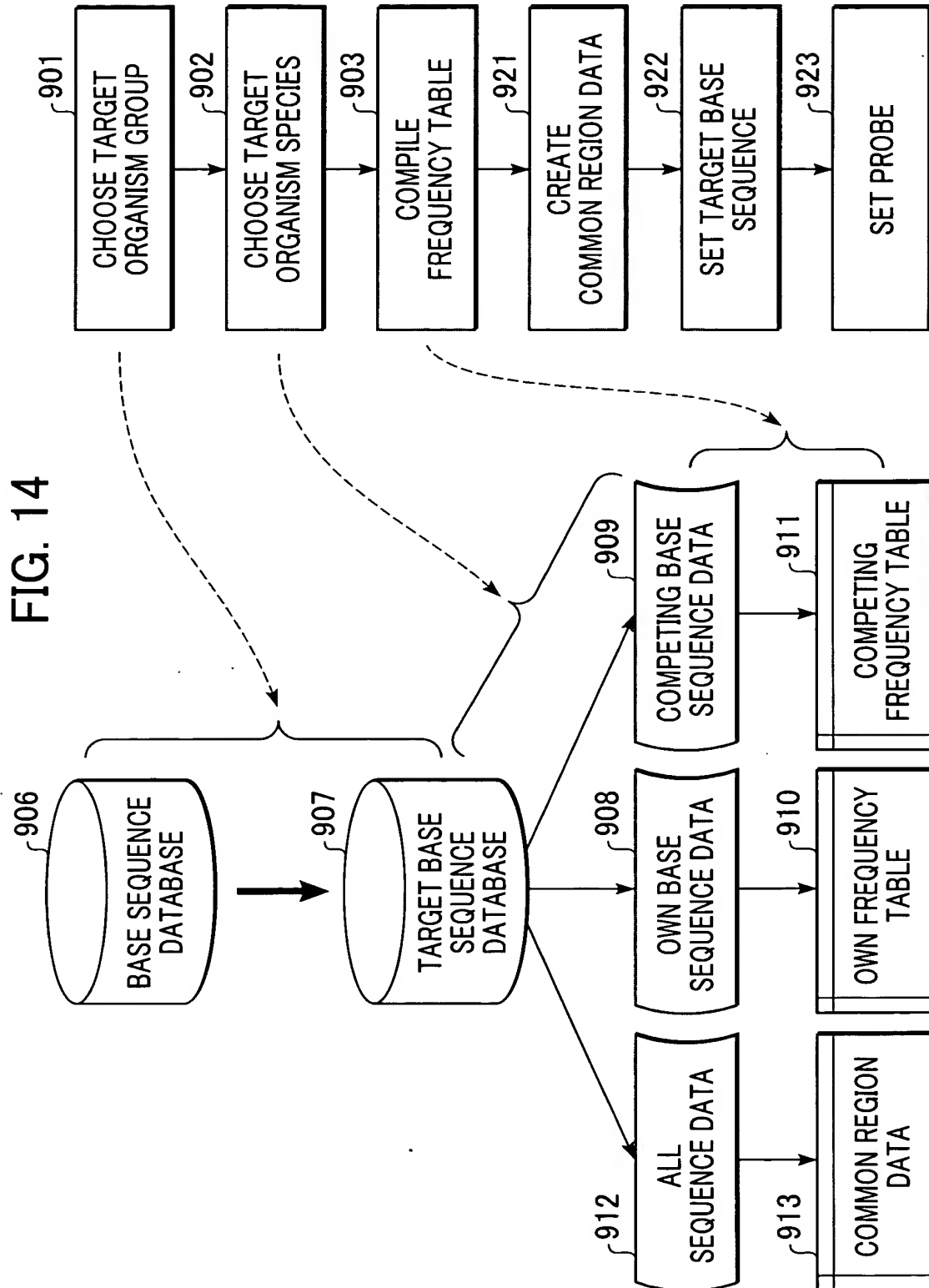


FIG. 14



1502

1504

FIG. 16

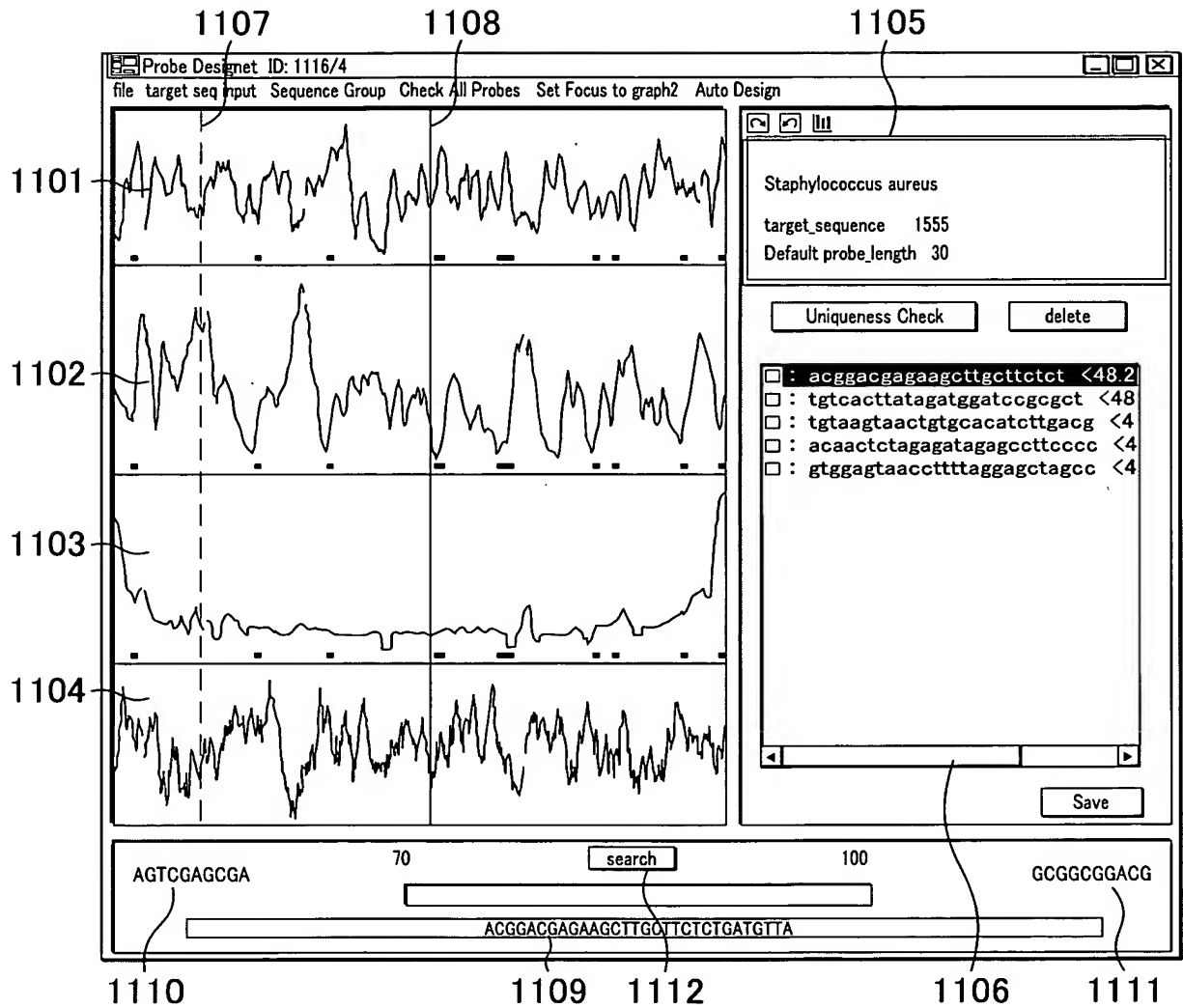


FIG. 17

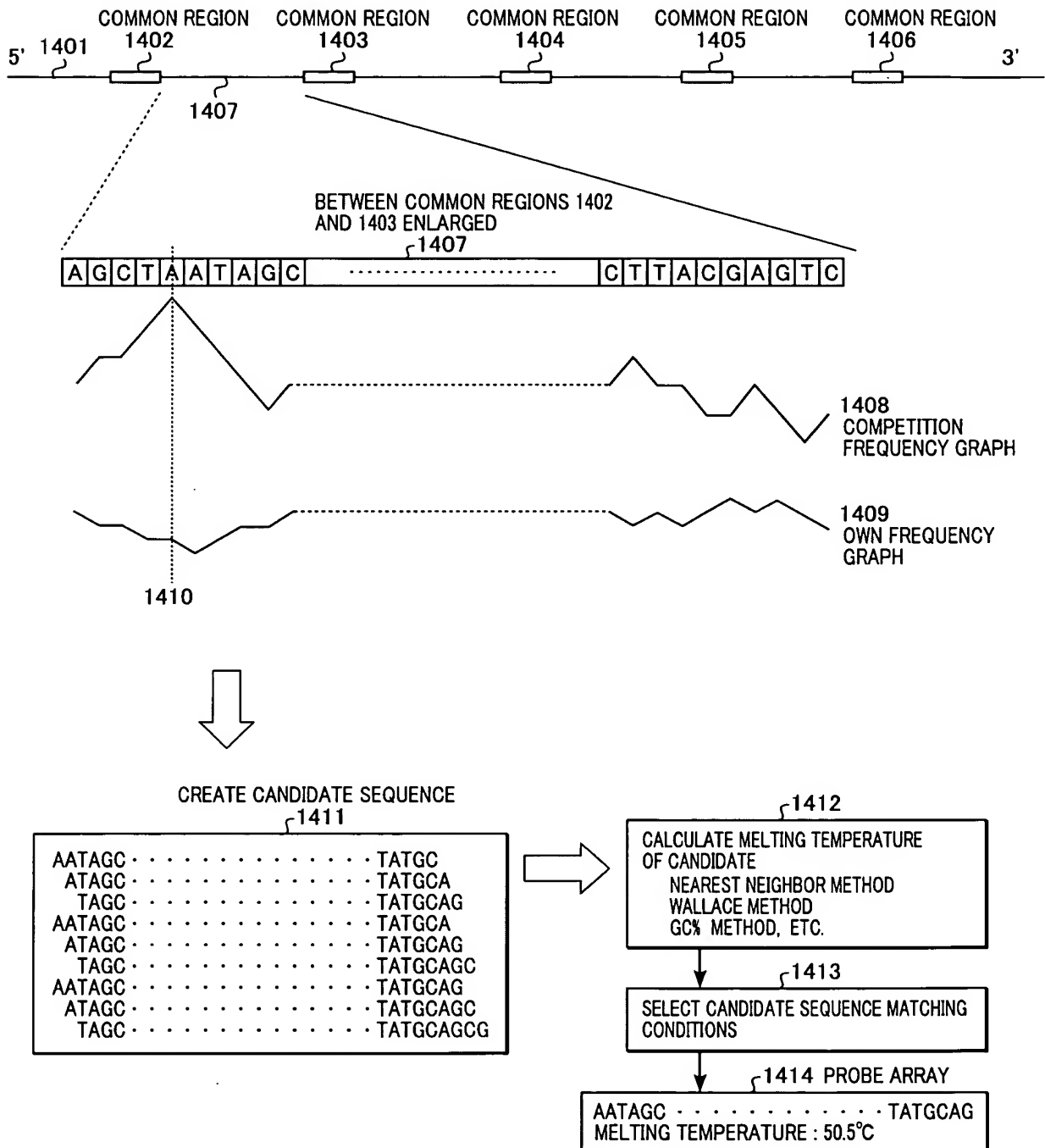


FIG. 18

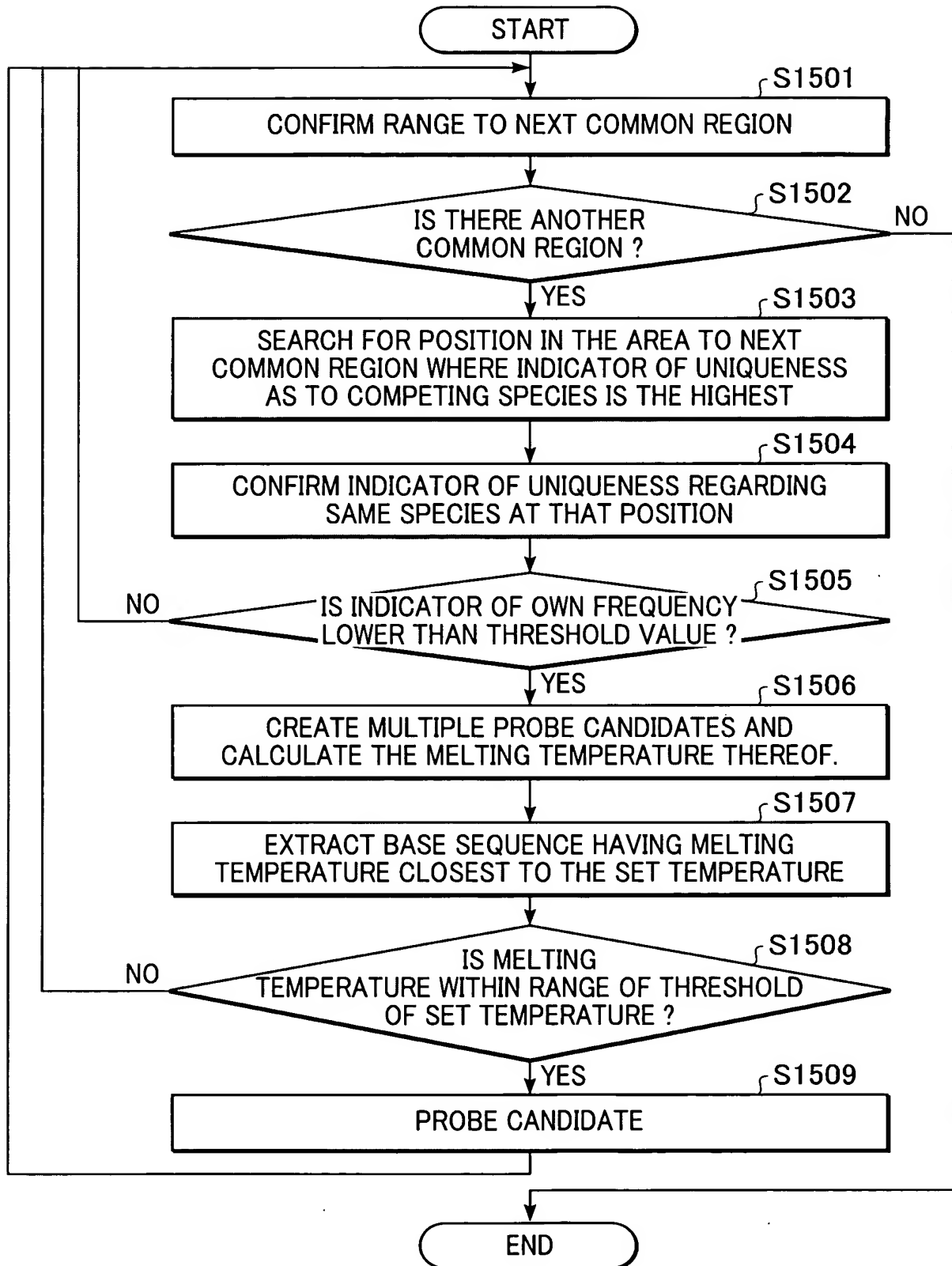




FIG. 19

